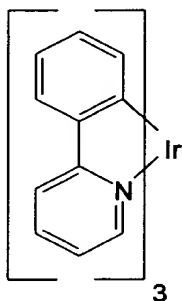


92. (New) The organic light emitting device of claim 91, wherein the phosphorescent organometallic compound is an iridium compound.
93. (New) The organic light emitting device of claim 92, wherein the iridium compound is a cyclometallated iridium compound.
94. (New) The organic light emitting device of claim 92, wherein the iridium compound is fac-tris(2-phenylpyridine) iridium, as denoted by the formula:



95. (New) The organic light emitting device of claim 91, wherein the phosphorescent organometallic compound is an osmium compound.
96. (New) The organic light emitting device of claim 95, wherein the osmium compound is a cyclometallated osmium compound.
97. (New) The organic light emitting device of claim 91, wherein the phosphorescent organometallic compound is a platinum compound.
98. (New) The organic light emitting device of claim 91, wherein the phosphorescent organometallic compound is a cyclometallated compound having the cycle closed with at least one metal-X bond, wherein X is selected from the group consisting of nitrogen, sulfur, phosphorous, arsenic and oxygen.

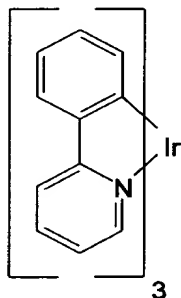
99. (New) The organic light emitting device of claim 98, wherein the phosphorescent organometallic compound is a cyclometallated platinum compound.

100. (New) An organic light emitting device comprising an anode, a cathode and an emissive layer, wherein the emissive layer is located between the anode and the cathode, and the emissive layer comprises a host material and a phosphorescent organometallic compound present as a dopant in said host material, wherein the phosphorescent organometallic compound includes a carbon-metal bond.

101. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is an iridium compound.

102. (New) The organic light emitting device of claim 101, wherein the iridium compound is a cyclometallated iridium compound.

103. (New) The organic light emitting device of claim 101, wherein the iridium compound is fac-tris(2-phenylpyridine) iridium, as denoted by the formula:



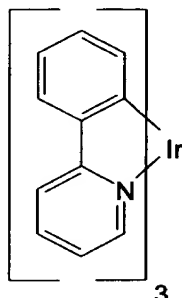
104. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is an osmium compound.

105. (New) The organic light emitting device of claim 104, wherein the osmium compound is a cyclometallated osmium compound.

106. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is a platinum compound.
107. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is a cyclometallated compound having the cycle closed with at least one metal-X bond, wherein X is selected from the group consisting of nitrogen, sulfur, phosphorous, arsenic and oxygen.
108. (New) The organic light emitting device of claim 107, wherein the phosphorescent organometallic compound is a cyclometallated platinum compound.
109. (New) The organic light emitting device of claim 100, wherein the host material is a polymeric host material.
110. (New) The organic light emitting device of claim 109, wherein the polymeric host material is a polyvinylcarbazole.
111. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is substituted with an electron donor group.
112. (New) The organic light emitting device of claim 100, wherein the phosphorescent organometallic compound is substituted with an electron acceptor group.
113. (New) An organic light emitting device comprising an anode, a cathode and an emissive layer, wherein the emissive layer is located between the anode and the cathode and the emissive layer comprises a phosphorescent organometallic compound, wherein the phosphorescent organometallic compound includes a carbon-metal bond and the phosphorescent organometallic compound emits radiation from a triplet state when a voltage is applied across the emissive layer.
114. (New) The organic light emitting device of claim 113, wherein the phosphorescent organometallic compound is an iridium compound.
115. (New) The organic light emitting device of claim 114, wherein the iridium compound

is a cyclometallated iridium compound.

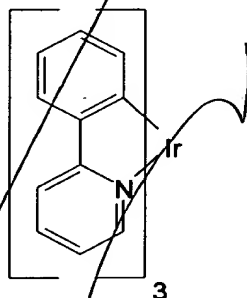
116. (New) The organic light emitting device of claim 114, wherein the iridium compound is fac-tris(2-phenylpyridine) iridium, as denoted by the formula:



117. (New) The organic light emitting device of claim 113, wherein the phosphorescent organometallic compound is an osmium compound.
118. (New) The organic light emitting device of claim 117, wherein the osmium compound is a cyclometallated osmium compound.
119. (New) The organic light emitting device of claim 113, wherein the phosphorescent organometallic compound is a platinum compound.
120. (New) The organic light emitting device of claim 113, wherein the phosphorescent organometallic compound is a cyclometallated compound having the cycle closed with at least one metal-X bond, wherein X is selected from the group consisting of nitrogen, sulfur, phosphorous, arsenic and oxygen.
121. (New) The organic light emitting device of claim 120, wherein the phosphorescent organometallic compound is a cyclometallated platinum compound.
122. (New) An organic light emitting device comprising an anode, a cathode and an emissive layer, wherein the emissive layer is located between the anode and the

cathode, and the emissive layer comprises a host material and a phosphorescent organometallic compound present as a dopant in said host material, wherein the phosphorescent organometallic compound includes a carbon-metal bond and the phosphorescent organometallic compound emits radiation from a triplet state when a voltage is applied across the emissive layer.

123. (New) The organic light emitting device of claim 122, wherein the phosphorescent organometallic compound is an iridium compound.
124. (New) The organic light emitting device of claim 123, wherein the iridium compound is a cyclometallated iridium compound.
125. (New) The organic light emitting device of claim 123, wherein the iridium compound is fac-tris(2-phenylpyridine) iridium, as denoted by the formula:



126. (New) The organic light emitting device of claim 122, wherein the phosphorescent organometallic compound is an osmium compound.
127. (New) The organic light emitting device of claim 126, wherein the osmium compound is a cyclometallated osmium compound.
128. (New) The organic light emitting device of claim 122, wherein the phosphorescent organometallic compound is a platinum compound.